

Instant Discussions Pelmax

MarsProspective Energy and Material ResourcesSpringer Science & Business Media

This book constitutes revised selected papers from the 22nd International Conference on Applications of Declarative Programming and Knowledge Management, INAP 2019, the 33rd Workshop on Logic Programming, WLP 2019, and the 27th Workshop on Functional and (Constraint) Logic Programming, WFLP 2019. The 15 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 24 submissions. The contributions present current research activities in the areas of declarative languages and compilation techniques, in particular for constraint-based, logical and functional languages and their extensions, as well as discuss new approaches and key findings in constraint-solving, knowledge representation, and reasoning techniques.

This book encompasses major progress and future directions in cytochrome P450 (P450) research. Included are contributions by pioneers in the discovery of P450, with chapters on the molecular and functional properties of P450 and cutting-edge applications knowledge from various fields. P450 research has its roots in metabolism, but the true beginning was in 1962 with the publication by Tsuneo Omura and Ryo Sato in The Journal of Biological Chemistry on their discovery of the cytochrome. Following this groundbreaking study, over the last half-century, research has revealed that many forms of P450 exist in animals, plants and microorganisms. P450 research has expanded into many different fields including medicine, agriculture and biotechnology and has drawn the attention of industries for its bioengineering applications, such as drug development and creation of the “blue rose”. Also, research on nuclear receptors, which has grown out of research on the regulatory mechanisms of P450 genes, has become an important area in biology, medical science, pharmacology and clinical medicine—for example, with recent developments in personalized medicines. This book will draw readers into the important and exciting world of P450 and will encourage young students and scientists in P450 research to continue expanding the field via new approaches.

This book is intended to give an introduction into the meteorological boundary conditions for power generation from the wind, onshore and offshore. It is to provide reliable meteorological information for the planning and running of this important kind of renewable energy. This includes the derivation of wind laws and wind profile descriptions, especially those above the logarithmic surface layer. Winds over complex terrain and nocturnal low-level jets are considered as well. A special chapter is devoted to the efficiency of large wind parks and their wakes.

th th Mars, the Red Planet, fourth planet from the Sun, forever linked with 19 and 20 Century fantasy of a bellicose, intelligent Martian civilization. The romance and excitement of that fiction remains today, even as technologically sophisticated -botic orbiters, landers, and rovers seek to unveil Mars’ secrets; but so far, they have yet to find evidence of life. The aura of excitement, though, is justified for another reason: Mars is a very special place. It is the only planetary surface in the Solar System where humans, once free from the bounds of Earth, might hope to establish habitable, self-sufficient colonies. Endowed with an insatiable drive, focused motivation, and a keen sense of -ploration and adventure, humans will undergo the extremes of physical hardship and danger to push the envelope, to do what has not yet been done. Because of their very nature, there is little doubt that humans will in fact conquer Mars. But even earth-bound extremes, such those experienced by the early polar explorers, may seem like a walk in the park compared to future experiences on Mars.

Computational Mathematics in Engineering and Applied Science provides numerical algorithms and associated software for solving a spectrum of problems in ordinary differential equations (ODEs), differential algebraic equations (DAEs), and partial differential equations (PDEs) that occur in science and engineering. It presents detailed examples, each

Emphasises on contemporary applications and an intuitive problem-solving approach that helps students discover the exciting potential of chemical science. This book incorporates fresh applications from the three major areas of modern research: materials, environmental chemistry, and biological science.

Very light, very strong. extremely reliable -aircraft and aerospace engineers are. and have to be. very demanding partners in the materials community. The results of their research and development work is not only crucial for one special area of applications. but can also lead the way to new solutions in many other areas of advanced technology. Springer-Verlag and the undersigned editor are pleased to present in this volume. an overview of the many facets of materials science and technology which have been the objective of intensive and systematic research work during past decades in the laboratories of the German Aerospace Research Establishment. Its contents shows clearly the interrelations between goals defined by the user. fundamentals provided by the scientists and viable solutions developed by the practical engineer. The particular personal touch which has been given to this volume by its authors in dedicating it as a farewell present to Professor Wolfgang Bunk. inspiring sci entist and director of the DLR Intitute of Materials Research for more than 20 years. has obviously given an added value to this important publication. Surely. this truly cooperative endeavour will render a valuable service to a large interna tional community of interested readers. many of them having personal links to the Institute. its director and its staff.

Public support and feed-in tariff as a nonvariable compensation for the electric power production of energy have suppressed the risky investment of distributed generators (DGs) in smart distribution systems (SDSs). Although the using renewable energy technologies and the incorporation of plug-in DGs into SDS may have positive effects on congestion management, power loss reduction, and sustainability, they may create some difficulties relating to manage the system optimally by considering the intermittency of renewable resources in power production and uncertainties. Many researches have been carried out to deliver the high-quality power to the end-users with acceptable reliability. This book aims to present the recent materials related to the smart microgrids and the management of intermittent renewable energy sources that organized into seven chapters.

FROM ZERO TO HERO . . . YOUR SECRET MAP TO A RICH LIFE What is your true calling and why aren't you already living it? Imagine if there was a map that showed you step by step how to get from where you are now to your true calling and the life you were born to live - the most brilliant, rich, fulfilling, and dazzling life you could ever dream of. You are holding in your hands such a map. HERO is the map for your life. By following the journeys of twelve of the most successful people on the planet today, you'll learn how to use your inner powers to overcome obstacles and to make impossible dreams come true. You'll be inspired to find your own calling and start taking the steps toward making the life of your dreams an everyday reality. Be the hero you are meant to be.

The series Advances in Industrial Control aims to report and encourage technology transfer in control engineering. The rapid development of control technology impacts all areas of the control discipline. New theory, new controllers, actuators, sensors, new industrial processes, computing methods, applications, philosophies, . . . , new challenges. Much of this development work resides in industrial reports, feasibility study papers and the reports of advanced collaborative projects. The series offers an opportunity for researchers to present an extended exposition of such new work in all aspects of industrial control for wider and rapid dissemination. The autotune method of Astrom and Hagglund had a major impact on the hardware and structure of PID process controllers. However, despite a substantial body of theoretical analysis, progress in transferring the benefits of more general self-tuning methods to industrial devices and processes has been much slower. This volume by Dr's Stephan and Keuchel shows that this type of technology transfer can be achieved and that the more advanced adaptive controllers do give

performance benefits over conventional industrial (three term) controllers. The volume also shows the requirements in hardware, the need for software skills and the engineering techniques required to achieve satisfactory results. We hope that by recording their engineering know-how more researchers and industrialists will be encouraged to tap the benefits of advanced self-tuning and adaptive control methods. July, 1993 Michael J. Grimble and M. A. Johnson, Industrial Control Centre, Glasgow, Scotland, U. K.

"This outline presents a fairly complete list of the abnormal mental phenomena, it shows how these phenomena are grouped into the syndromes manifested in the various psychoses and neuroses, and it briefly summarizes the most important etiological facts and explanatory theories of the mental anomalies and diseases. An attempt has been made to present in summary the various aspects of this many-sided subject without disproportionate emphasis or neglect of any topic or theory. The purpose of the outline is to serve as a guide for students of abnormal psychology in the absence of a comprehensive text-book. It is hoped that it will be found useful also by those medical students and students of social service who desire a general survey of this field but who have insufficient time for a regular supervised course or for extensive reading of the very much scattered literature"--Foreword. (PsycINFO Database Record (c) 2010 APA, all rights reserved).

The technologies of hydrogen's energetic utilization have been known for a long time. But aspects of system analysis, energy economics, and ecology that would come into play in introducing it into energy systems have received much less attention. For those reasons, this book attempts to show the development path of a hydrogen economy, based on assured technological knowledge. One special concern has been to demonstrate, on one hand, how these developments would fit into existing energy supply structures, and, on the other, how they would contribute to further development of the energy system as a whole. With that goal in mind it is necessary to contrast the obvious advantages of hydrogen with the large efforts that would be required for its introduction. This total-systems approach led to a three-part organization of the book that also aids the reader in quickly identifying those parts that are of special interest to him. Section A essentially explains why it is necessary today to think about a new synthetic energy carrier. It also describes the irreplaceable and growing role of hydrogen as a chemical raw material, and it explains technologies that already exist for its energetic use or that need further development. An attempt has also been made to prove that hydrogen's safety characteristics indeed permit its handling and use as an energy carrier. Hopefully, all this will show that hydrogen, together with electricity, could be the universally employable energy carrier of a future non-fossil energy supply system.

The authors of this text have written a comprehensive introduction to the modeling and optimization problems encountered when designing new propulsion systems for passenger cars. It is intended for persons interested in the analysis and optimization of vehicle propulsion systems. Its focus is on the control-oriented mathematical description of the physical processes and on the model-based optimization of the system structure and of the supervisory control algorithms.

The series Advances in Industrial Control aims to report and encourage technology transfer in control engineering. The rapid development of control technology impacts all areas of the control discipline. New theory, new controllers, actuators, sensors, new industrial processes, computer methods, new applications, new philosophies ... , new challenges. Much of this development work resides in industrial reports, feasibility study papers and the reports of advanced collaborative projects. The series offers an opportunity for researchers to present an extended exposition of such new work in all aspects of industrial control for wider and rapid dissemination. This volume by Professor Eduardo F. Camacho and his colleagues Manuel Berenguel and Francisco R. Rubio is an exemplar of what an Advances in Industrial Control monograph should be. In it the control of a thermal solar facility is used to study the performance obtainable from an interesting range of control algorithms. These methods range from the conventional PID controller, through to model-based predictive and robust optimal control methods and finishing with two fuzzy logic based control techniques. The scientific methodology applied is modelling, simulation and plant implementation. In the last chapter, a rigorous approach for a comparative study is described involving a careful selection of performance metrics. The text is rich in relevant up-to-date source material, and contains many thought-provoking comments. The presentation is well-balanced, impartial and very readable.

Errors in Veterinary Anesthesia is the first book to offer a candid examination of what can go wrong when anesthetizing veterinary patients and to discuss how we can learn from mistakes. Discusses the origins of errors and how to learn from mistakes Covers common mistakes in veterinary anesthesia Provides strategies for avoiding errors in anesthetizing small and large animal patients Offers tips and tricks to implement in clinical practice Presents actual case studies discussing errors in veterinary anesthesia

The NIOSH Pocket Guide to Chemical Hazards presents information taken from the NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards, from National Institute for Occupational Safety and Health (NIOSH) criteria documents and Current Intelligence Bulletins, and from recognized references in the fields of industrial hygiene, occupational medicine, toxicology, and analytical chemistry. The information is presented in tabular form to provide a quick, convenient source of information on general industrial hygiene practices. The information in the Pocket Guide includes chemical structures or formulas, identification codes, synonyms, exposure limits, chemical and physical properties, incompatibilities and reactivities, measurement methods, respirator selections, signs and symptoms of exposure, and procedures for emergency treatment.

More than 20 countries generate electricity from geothermal resources and about 60 countries make direct use of geothermal energy. A ten-fold increase in geothermal energy use is foreseeable at the current technology level. Geothermal Energy: An Alternative Resource for the 21st Century provides a readable and coherent account of all facets of geothermal energy development and summarizes the present day knowledge on geothermal resources, their exploration and exploitation. Accounts of geothermal resource models, various exploration techniques, drilling and production technology are discussed within 9 chapters, as well as important concepts and current technological developments. Interdisciplinary approach, combining traditional disciplines such as geology, geophysics, and engineering Provides a readable and coherent account of all facets of geothermal energy development Describes the importance of bringing potable water to high-demand areas such as the tropical regions

Due to the complexity of the process operation and the requirements for high quality, low cost, safety and the protection of the environment, an increasing number of pulp and paper companies are in need of an advanced control technology to improve their process operation. This publication presents, for the first time, the theory of such an advanced control technology as

well as various industrial applications associated especially with Paper Making. The reader will gain a better understanding of the most popular and advanced process control techniques and applications of these techniques in an important real-time process industry. The contents are based on the authors' own research on modeling and advanced control in this field.

Victoria Bricker shows that "history" sometimes rests on mythological foundations and that "myth" can contain valid historical information. Her book, which is a highly original critique of postconquest historiography about the Maya, challenges major assumptions about the relationship between myth and history implicit in structuralist interpretations. The focus of the book is ethnic conflict, a theme that pervades Maya folklore and is also well documented historically. The book begins with the Spanish conquest of the Maya. In chapters on the postconquest history of the Maya, five ethnic conflicts are treated in depth: the Cancuc revolt of 1712, the Quisteil uprising of 1761, the Totonacapan rebellion of 1820, the Caste War of Yucatan (1847-1901), and the Chamulan uprising in 1869. Analytical chapters consider the relationship between historical events and modern folklore about ethnic conflict. Bricker demonstrates that myths and rituals emphasize structure at the expense of temporal and geographical provenience, treating events separated by centuries or thousands of miles as equivalent and interchangeable. An unexpected result of Bricker's research is the finding that many seemingly aboriginal elements in Maya folklore are actually of postconquest origin, and she shows that it is possible to determine precisely when and, more important, why they become part of myth and ritual. Furthermore, she finds that the patterning of the accretion of events in folklore over time provides clues to the function, or meaning, of myth and ritual for the Maya. Bricker has made use of many unpublished documents in Spanish, English, and Maya, as well as standard synthetic historical works. The appendices contain extensive samples of the oral traditions that are explained by her analysis.

After Roberta Frasier's theft of Scottish barrister Sinclair McBride's watch leads him to hire her as governess to his two mischievous children, the widower finds himself tempted to take a second chance on love.

Three-dimensional magnetic resonance imaging has several advantages over the 2-dimensional technique. It makes the visualisation of non-planar structures easier and, along with that, volume measurements; although less important for straight forward radiological diagnosis, this is very useful for treatment planning, the teaching of anatomy and notably the development of magnetic resonance angiography. Until recently though, it has generally been too complicated and time consuming to produce and present three-dimensional data for it to be of practical use. However recent advances in technology have, to some ".

Morphometry of the Human Lung considers the developments in understanding the quantitative anatomy of the lung, and in the correlation of anatomy with physiology. This book is composed of 11 chapters, and begins with an overview of a systematic approach to a quantitative morphologic analysis of the architecture of the human lung, followed by a presentation of general problems of methodology and the derivation of reliable dimensional models of this organ. The subsequent chapters describe the methods of preparation of tissues, methods of random sampling, and adaptation of methodologies from other fields of science. These topics are followed by discussions the mathematical formulations for the translation of the data into the desired geometric forms and a technique of counting. The final chapters look into the mode of distribution and geometric forms that should eventually facilitate mathematical and physical considerations regarding the function of the lungs. These chapters also consider the application of these quantitative methods to the study of pathologic specimens, providing a most timely renovation of morphologic pathology. This book will be of value to pulmonologists, physiologists, and researchers who are interested in lung morphometry.

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